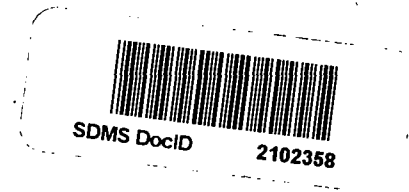


# Central Chemical Site Community Liaison Panel ■ ■ ■ ■ ■

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Hagerstown, Maryland

**Agenda  
Central Chemical Site  
Community Liaison Panel  
Haven Lutheran Church Social Hall  
Hagerstown, Maryland  
January 8, 2004  
6:00 p.m.**



1. Call to Order
2. Review of Agenda and Team Agreement
3. Review of November Minutes
4. Project Update
  - Superfund Process, Bill Murray, URS and Eric Newman, EPA
  - Bill Murray, URS
5. Communication Update
  - News Release, Roberta Fowlkes
  - Members
6. Unfinished Business
  - Signs at Central Chemical Property, George Crouse
7. New Business
  - Review Phase 1 Conclusions and Report on Scope of Phase 2
  - Next Steps
8. Next Meeting
  - Thursday, March 11, 2004
  - Review Original Topics/Discuss Future Topics
9. Questions and Comments
  - Members
  - Guests
10. Critique and Adjournment

## **Central Chemical Site Community Liaison Panel Team Agreement**

- Be honest.
- We will agree to disagree.
- If we use acronyms, we must explain them. Ask for explanation if needed.
- There is no such thing as a stupid question.
- Turn off cell phones (with exceptions for emergencies).
- We will treat each other with respect.
- We commit to attending meetings and participating.
- If everybody thinks alike, somebody isn't thinking.
- We will strive to reach consensus through full discussion.

## **Purpose Statement Central Chemical Site Community Liaison Panel**

The Central Chemical Site Community Liaison Panel will serve as a forum for open discussion between members of the Hagerstown community and representatives of the Maryland Department of the Environment, the U.S. Environmental Protection Agency and the companies conducting the environmental study at the site.

The Panel will meet regularly and will foster interaction, the exchange of facts and information, and the expression of individual views of participants, leading to consensus input. The Panel will provide direct, regular and meaningful input to those overseeing and performing the work regarding the environmental study and the selection of the remedy for the site.

# **Central Chemical Site Hagerstown, Maryland**

**January 8, 2004  
CLP Meeting**

## **Discussion Topics**

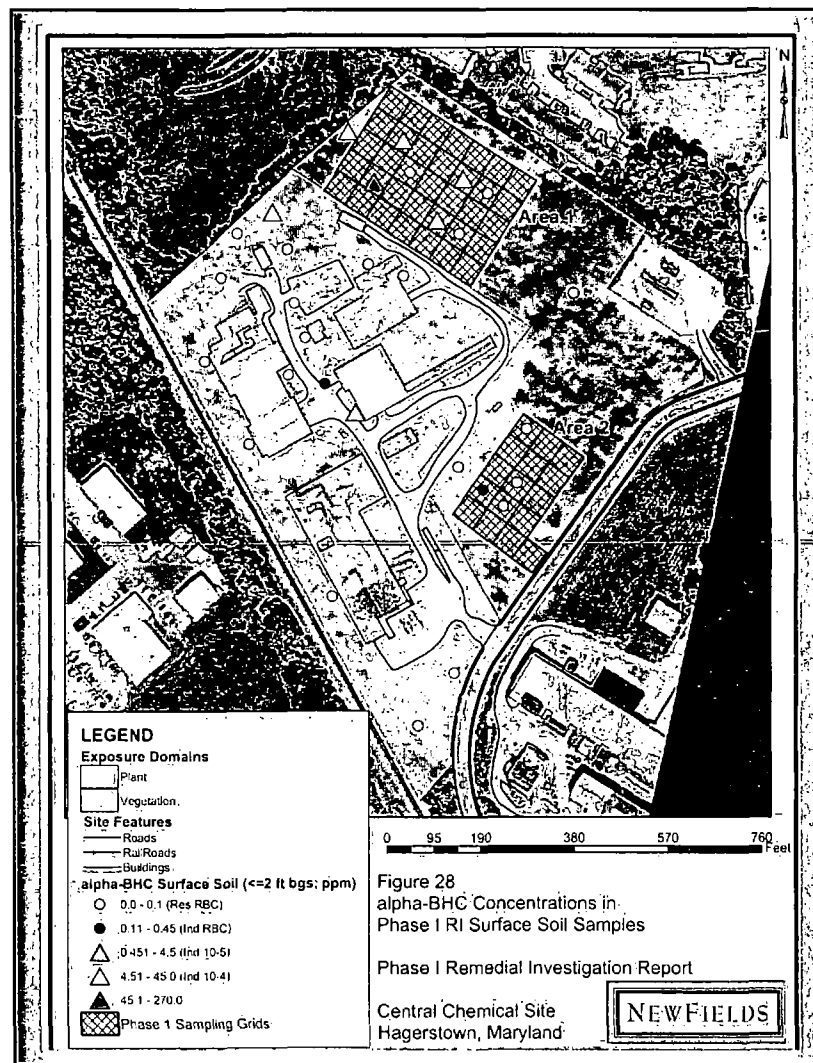
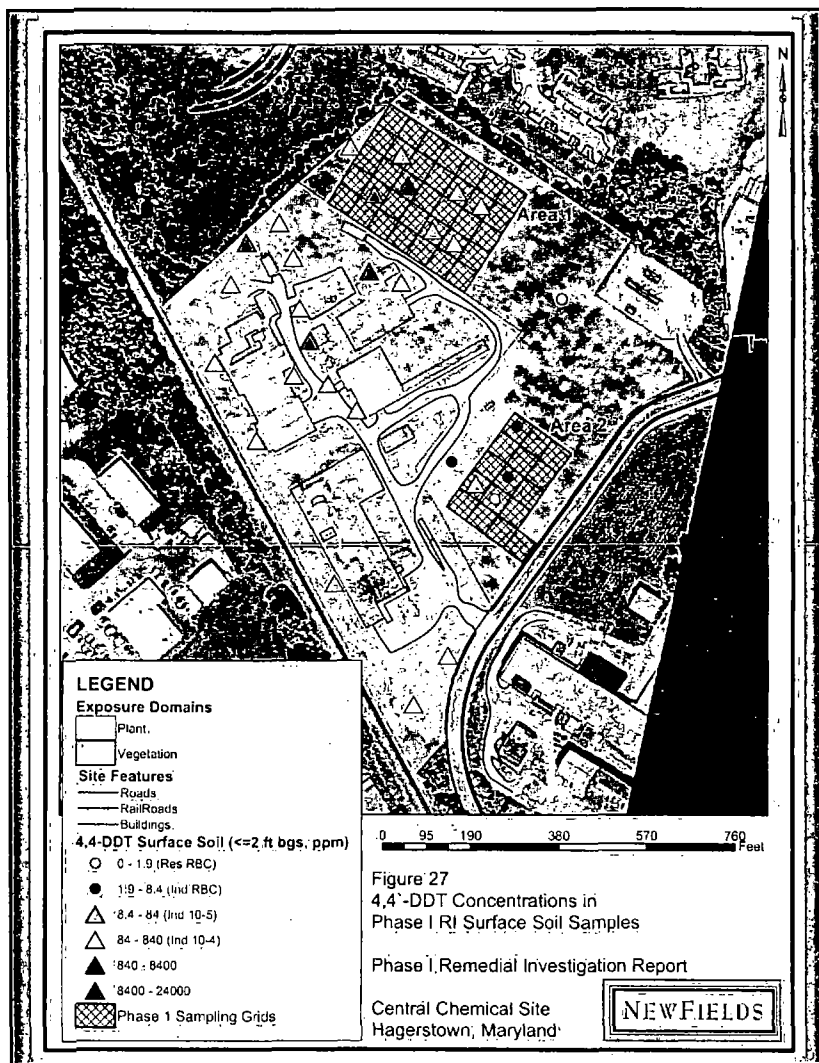
- Phase I RI Results
  - Soils
  - Surface Water/Sediment
  - Groundwater
  - Stormwater
- Phase II Plan
  - Soil Sampling Plans
  - Groundwater Plan
- Key Points
- Review of Next Steps

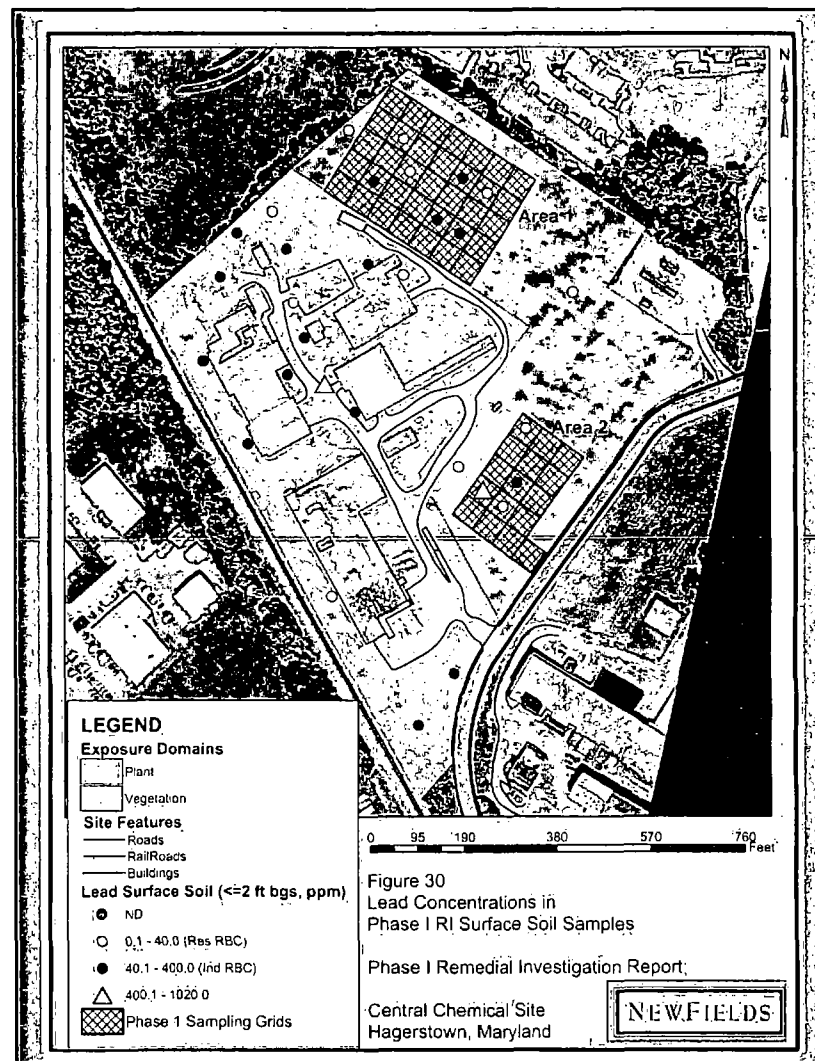
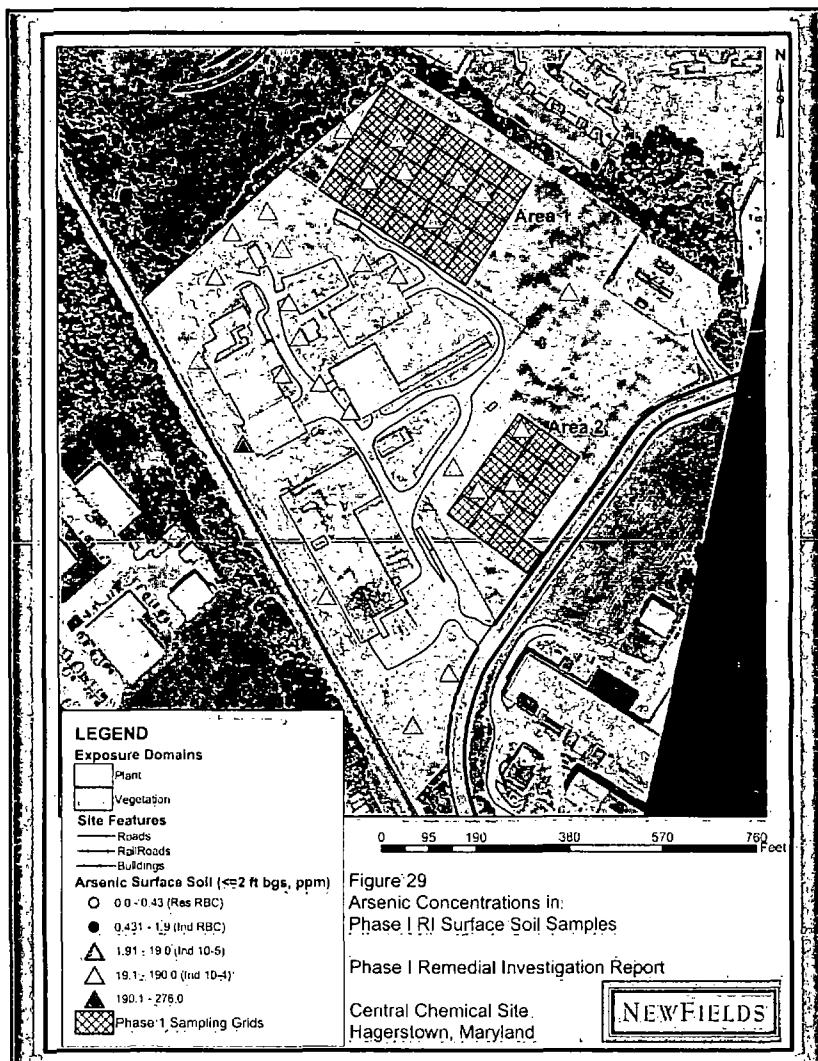
## Phase I RI Objectives

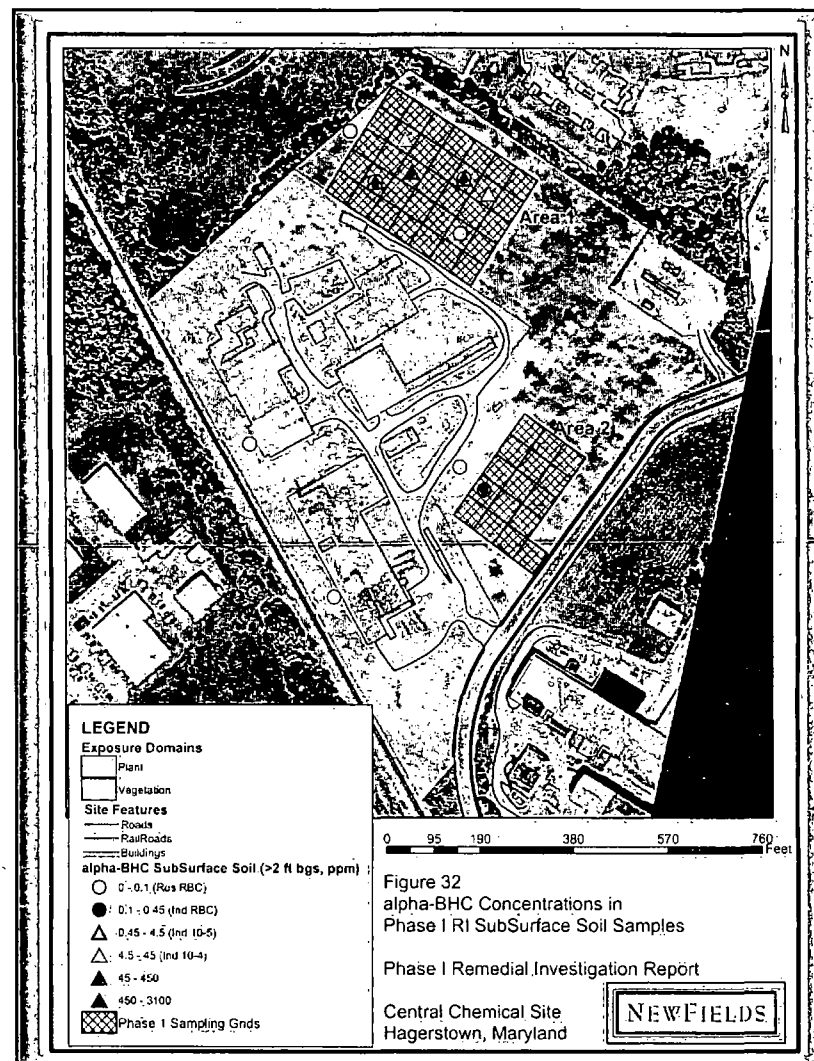
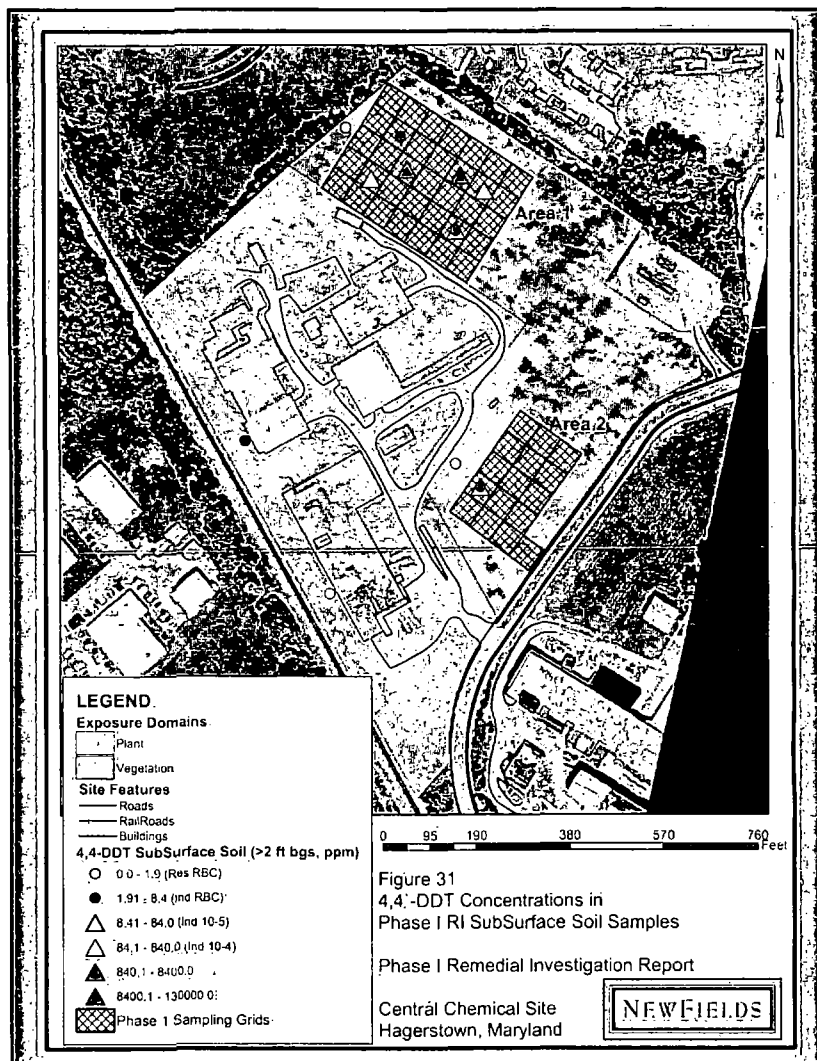
- Identify compounds in site **soils** that contribute to risk
- Determine current impacts in **groundwater** and evaluate potential for transport to offsite areas
- Evaluate **surface water** and **sediment** for current conditions
- Sample **stormwater** to determine if site compounds are being carried offsite.
- Collect samples within site **buildings** to help determine need for building cleanup.

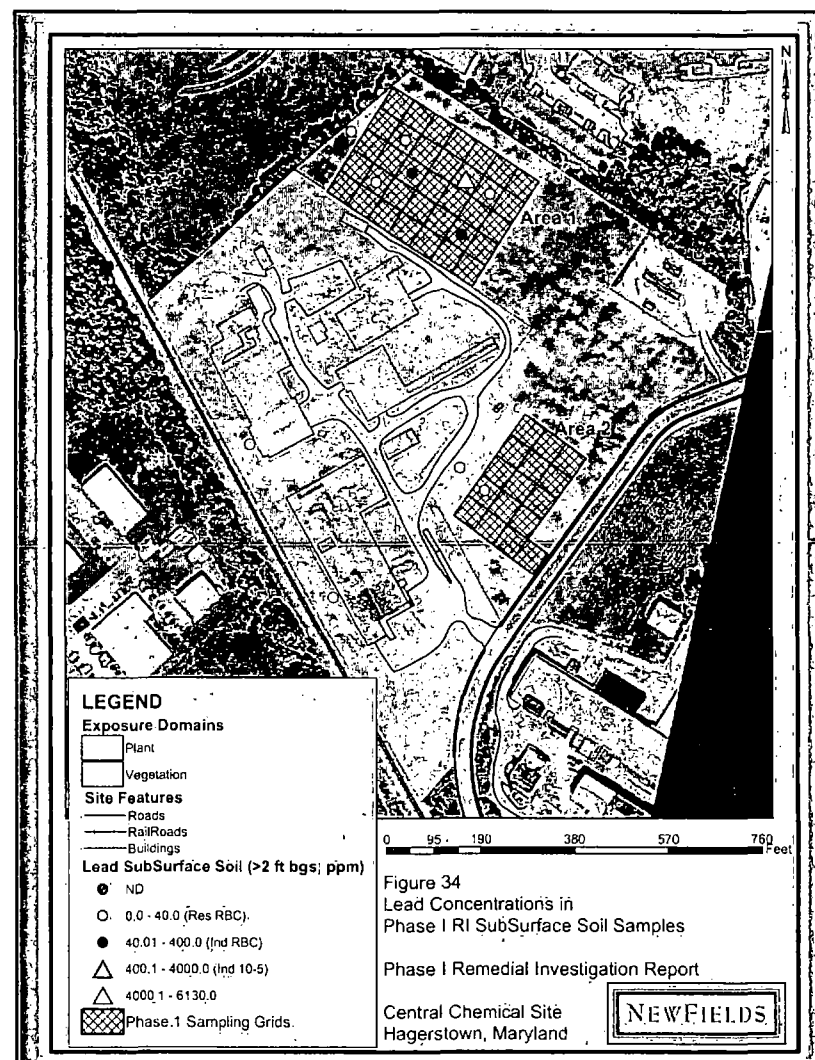
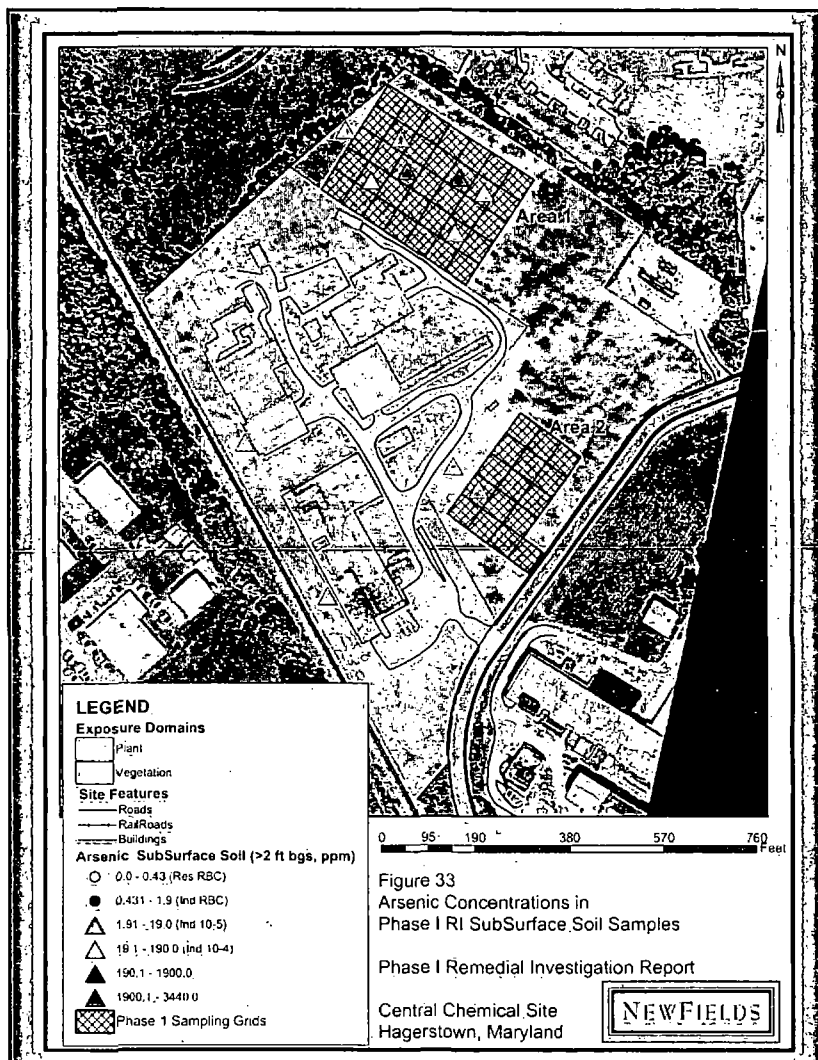
## Phase I Results - Soils

- Pesticides and metals were detected in several samples. Higher concentrations are found in Area 1, within the plant area, and on the rail siding.
- Detected concentrations in Area 2 were generally below levels of concern.
- Elevated concentrations of pesticides and metals in the subsurface appear to be generally limited to Area 1.
- Depth of impacted material in Area 1 is up to 23.5 feet.

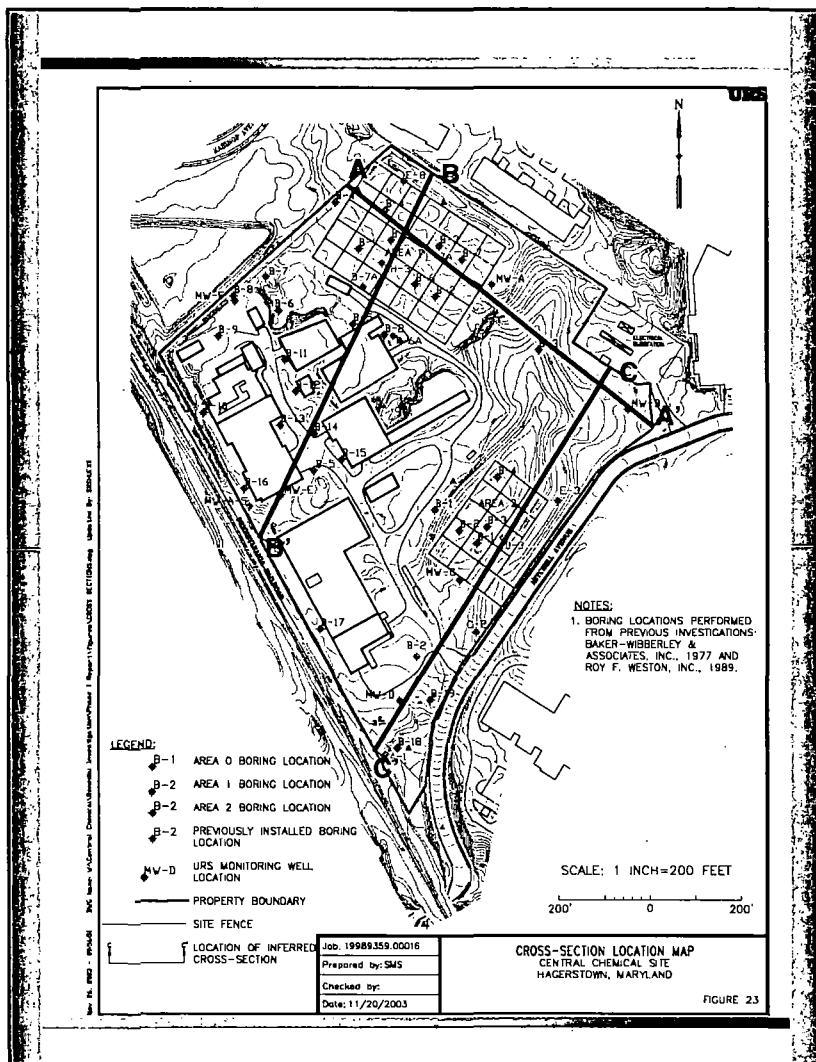












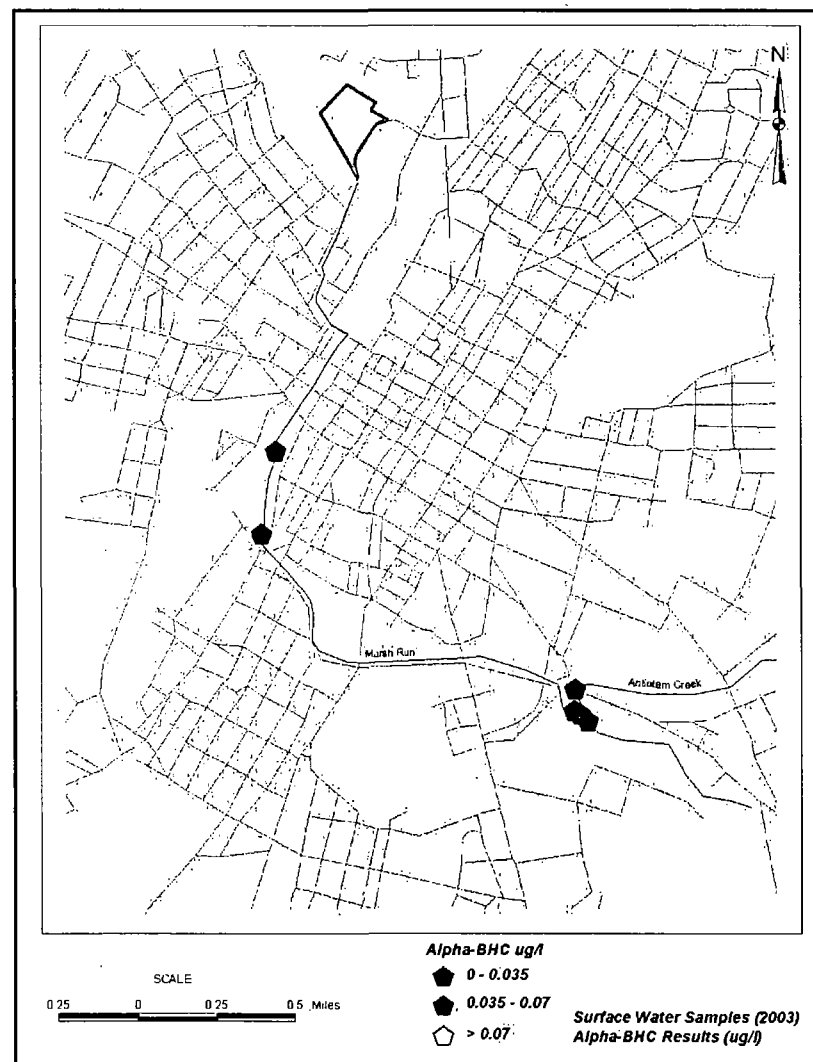
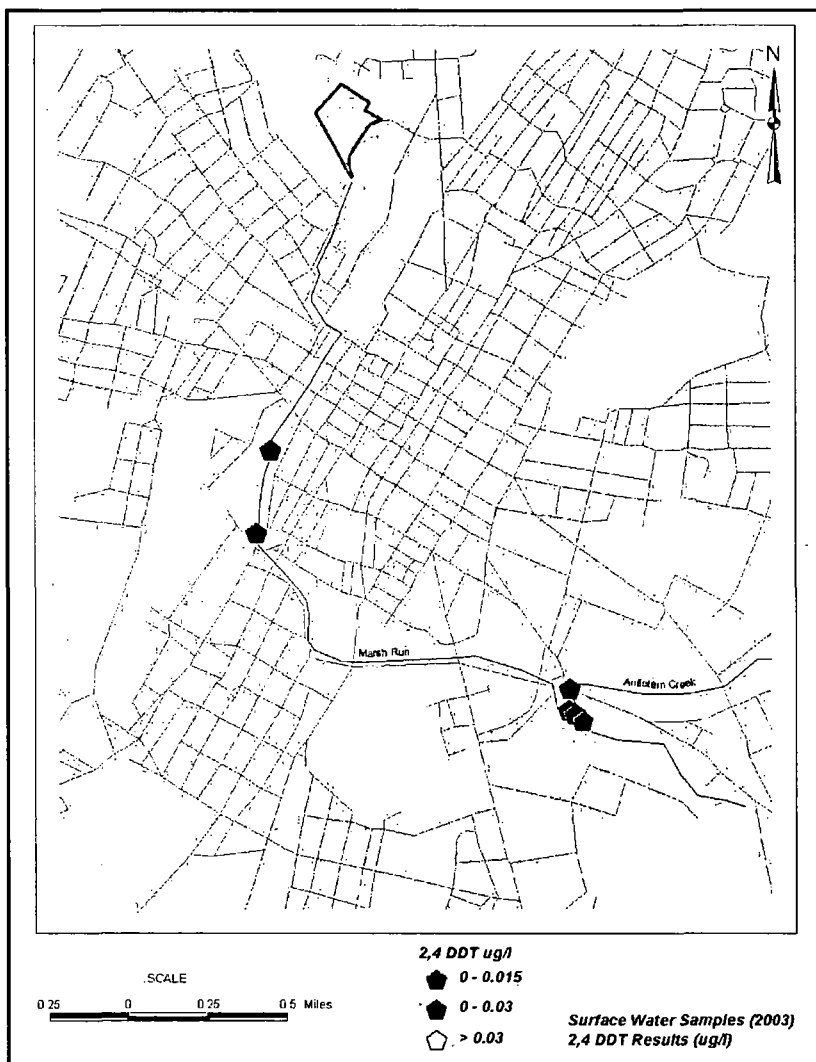
## Phase I Results- Surface Water/ Sediments

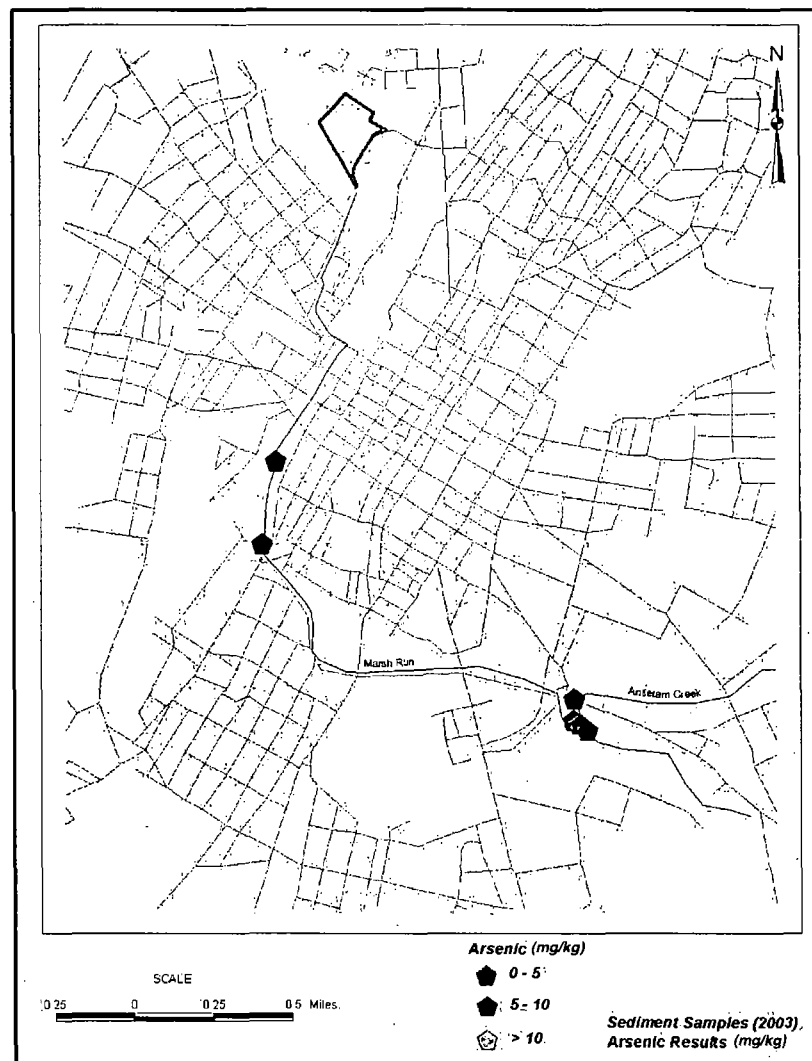
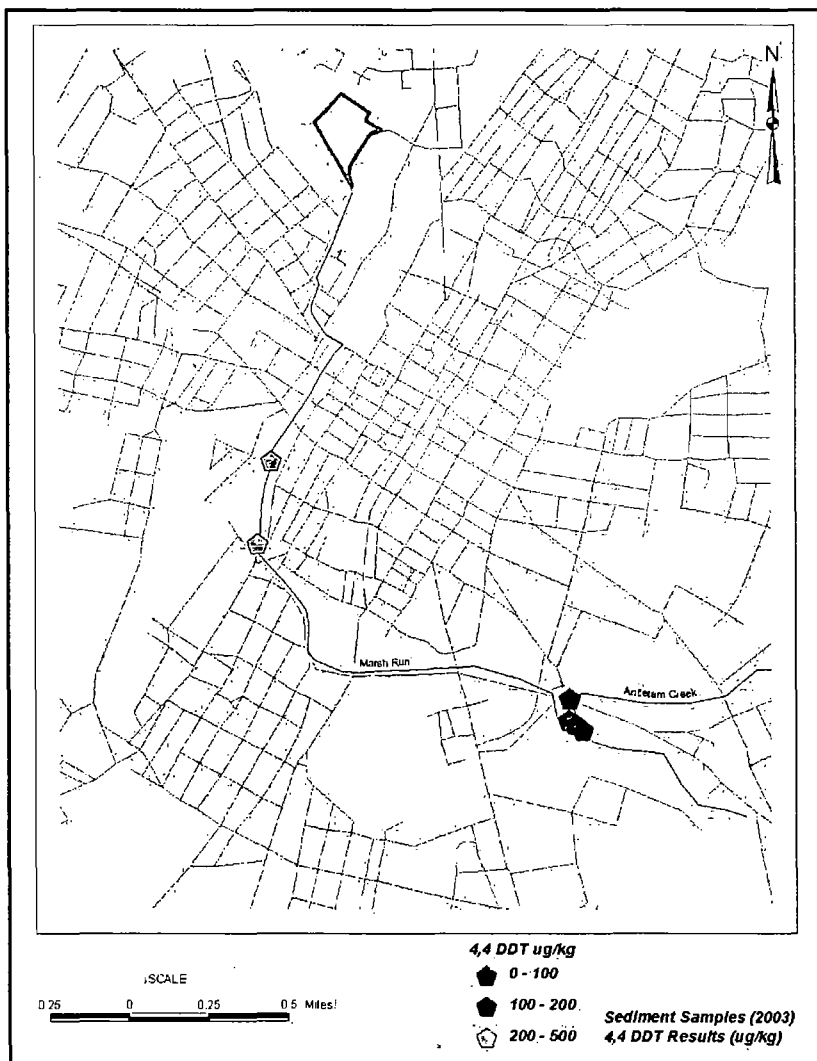
### • Surface Water

- Few site-related compounds detected
- Pesticides (2,4 DDT and alpha-BHC) were detected at parts per trillion levels
- Highest concentrations (still very low) were in the upstream sample in Antietam Creek

### • Sediments

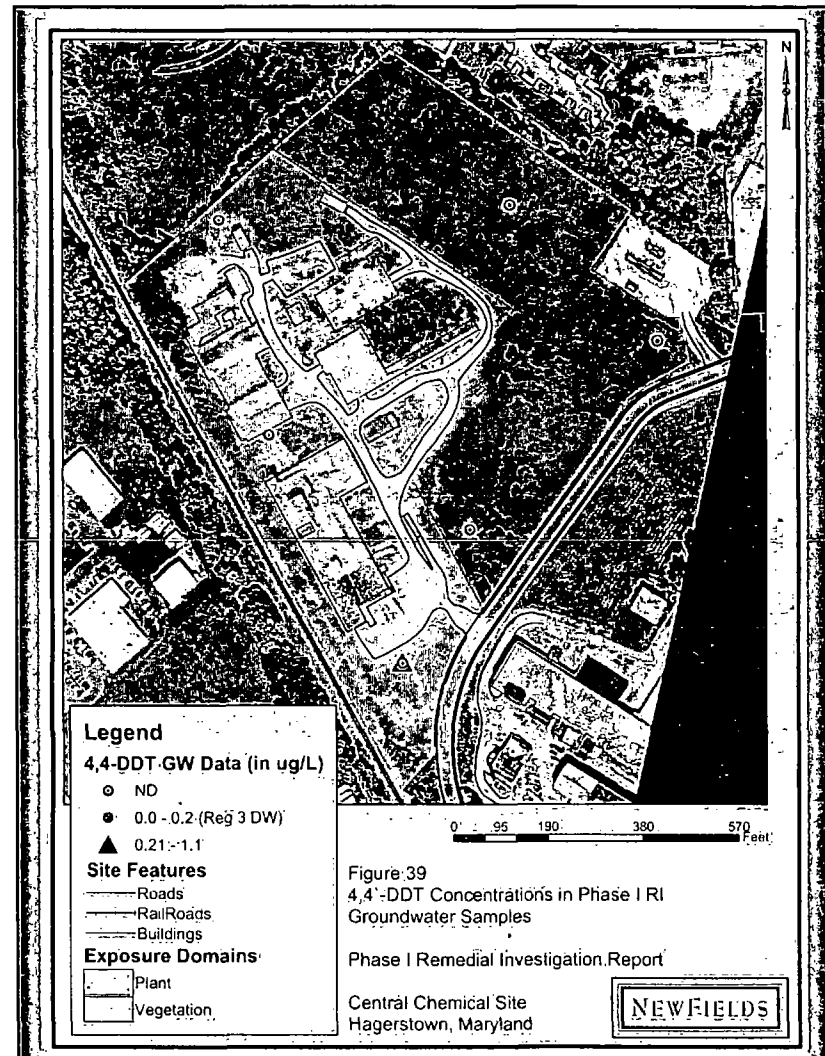
- Concentrations of DDT were detected in all samples including upstream in Antietam Cr
- Concentrations are well below human health risk levels for soils.
- Arsenic shows similar distribution pattern and is also below human health levels.

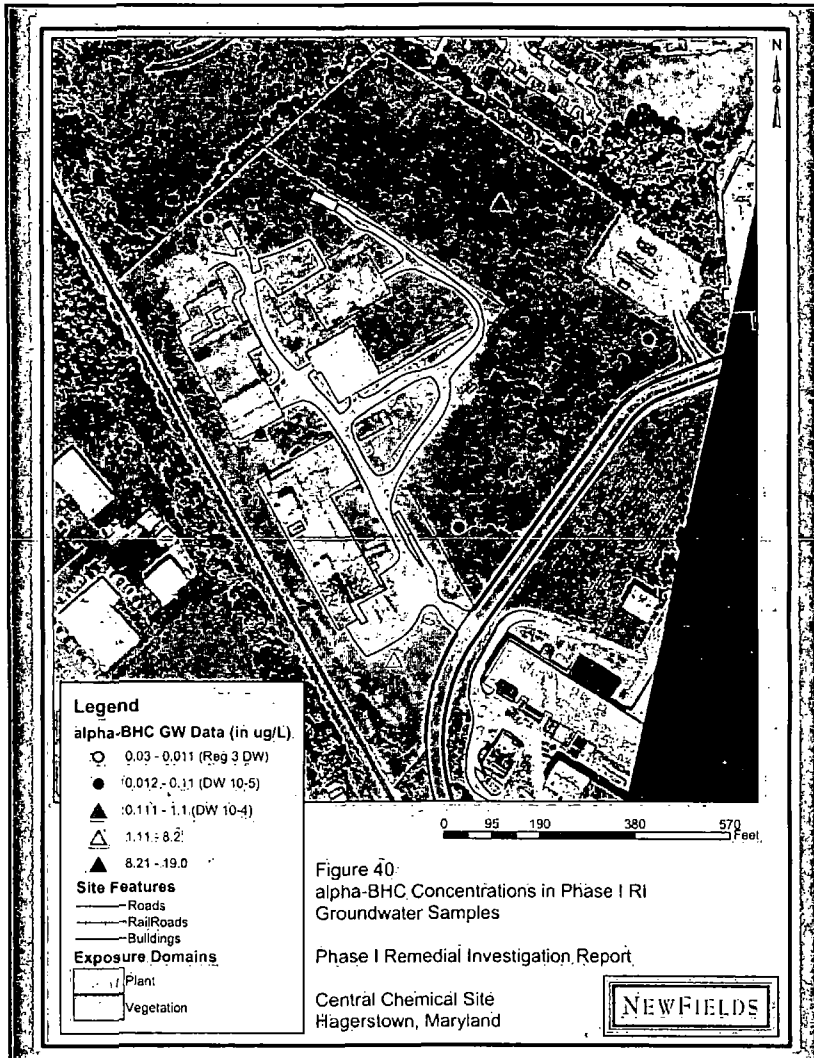




## Phase I Results – Groundwater

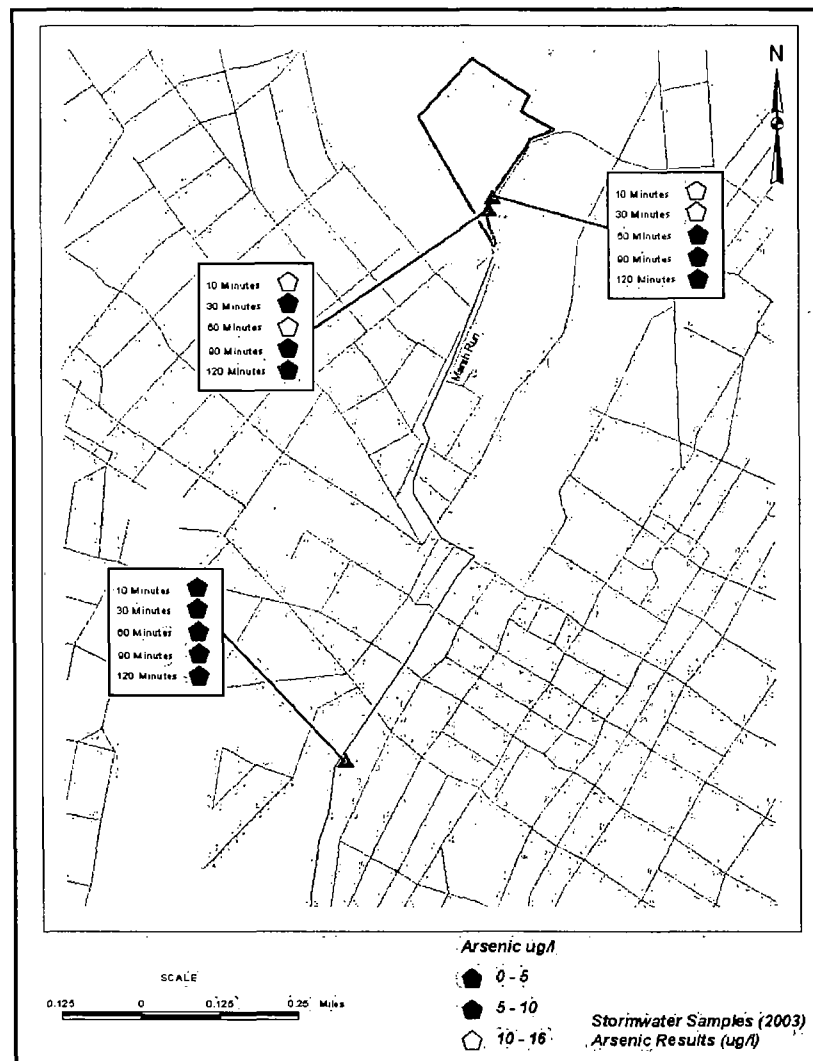
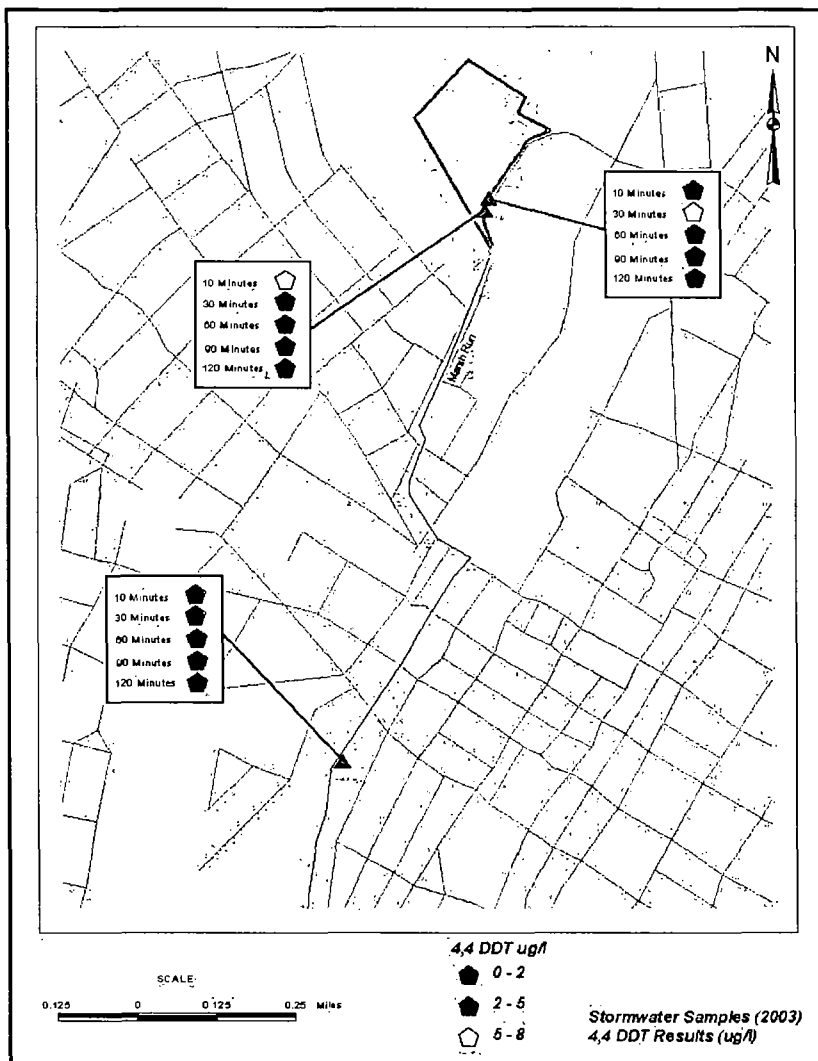
- Two rounds of samples (April 2003 and June 2003).
- Impacts to groundwater are apparent only in Well A near the former lagoon.
- No apparent transport to other locations on site.
- Additional data needed to determine flow direction.

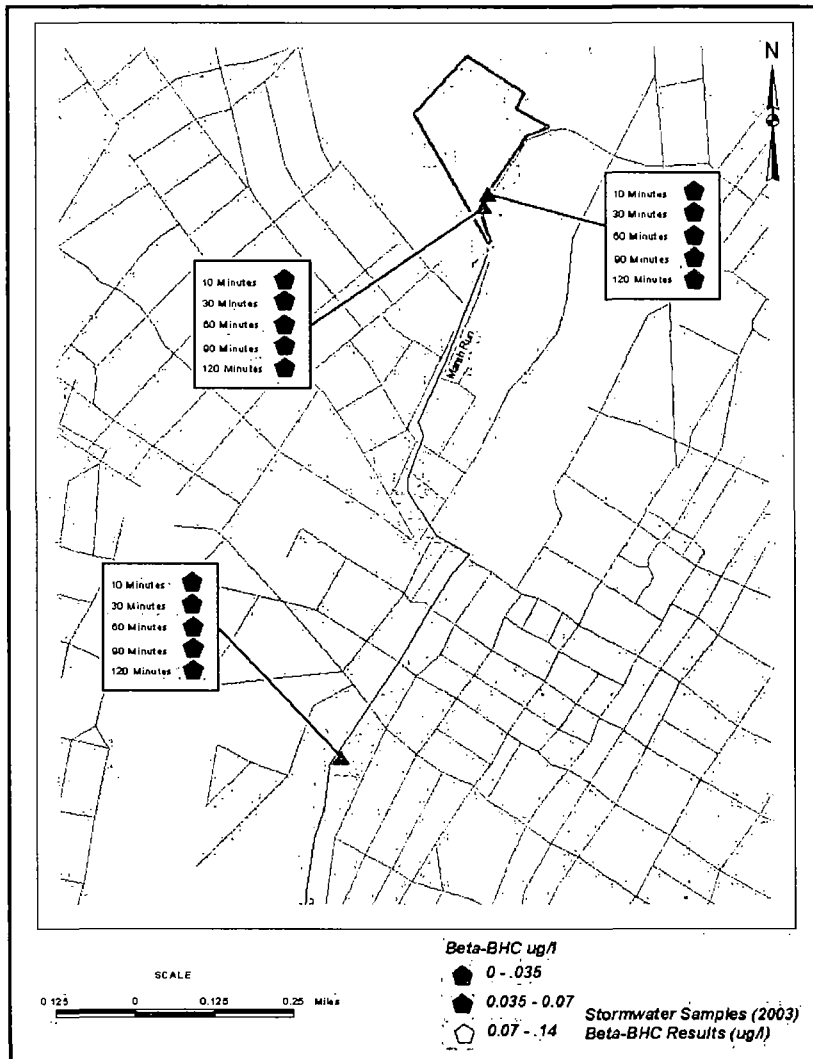




## Phase I Results - Stormwater

- Concentrations of compounds generally decrease with successive samples.
- Concentrations are low parts per billion near the site or parts per trillion levels in City Park samples.
- Detected compounds are associated with particles in water; not dissolved phase.
- Interim action planned to control sediment in stormwater run-off.





## Phase I Results – Buildings

- Pesticides were detected in several buildings.
- If the buildings are demolished as part of future redevelopment of the site, cleaning of the buildings will be necessary.

## Phase I Summary

- What did we learn –
  - Soils – pesticides and metals are a concern in onsite soils.
  - Groundwater – impacts very close to the former lagoon but flow directions are not clear.
  - Surface water and sediment – no significant impacts.
  - Stormwater – site compounds may be leaving the site in runoff but results could be due to vehicle traffic.

## Phase I Summary (cont.)

- Conclusions and Phase 2 Objectives
  - Soils – some type of remediation is likely required and additional data is needed to plan that remediation.
  - Groundwater – it does not appear that impacts to groundwater are significant but more data is needed to better understand flow and compounds in groundwater near the site boundaries.
  - Surface water – no significant impact and no additional data needed.
  - Sediment – no significant impact and no additional data needed. Fish tissue data is needed to evaluate ecological exposure.
  - Stormwater – interim measure planned to eliminate offsite transport – additional data needed to confirm the effectiveness of the Interim Measure.



## Phase II Plan

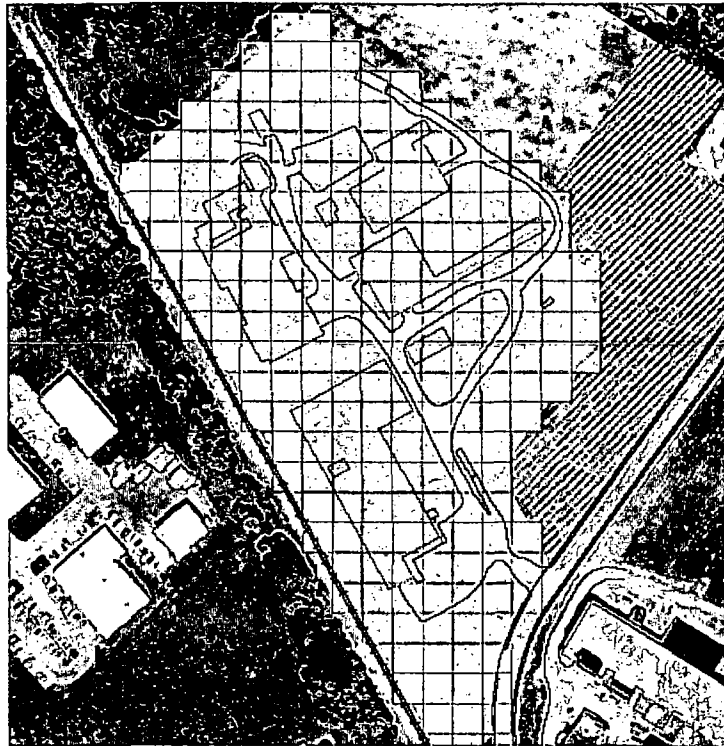
- Collect additional soil samples (both surface and subsurface)
- Install additional wells and sample all onsite wells
- Collect samples of fish from two locations in Antietam Creek

## Phase II Exposure Domains

1. Plant Area
2. Former Lagoon Area
3. Vegetated Area



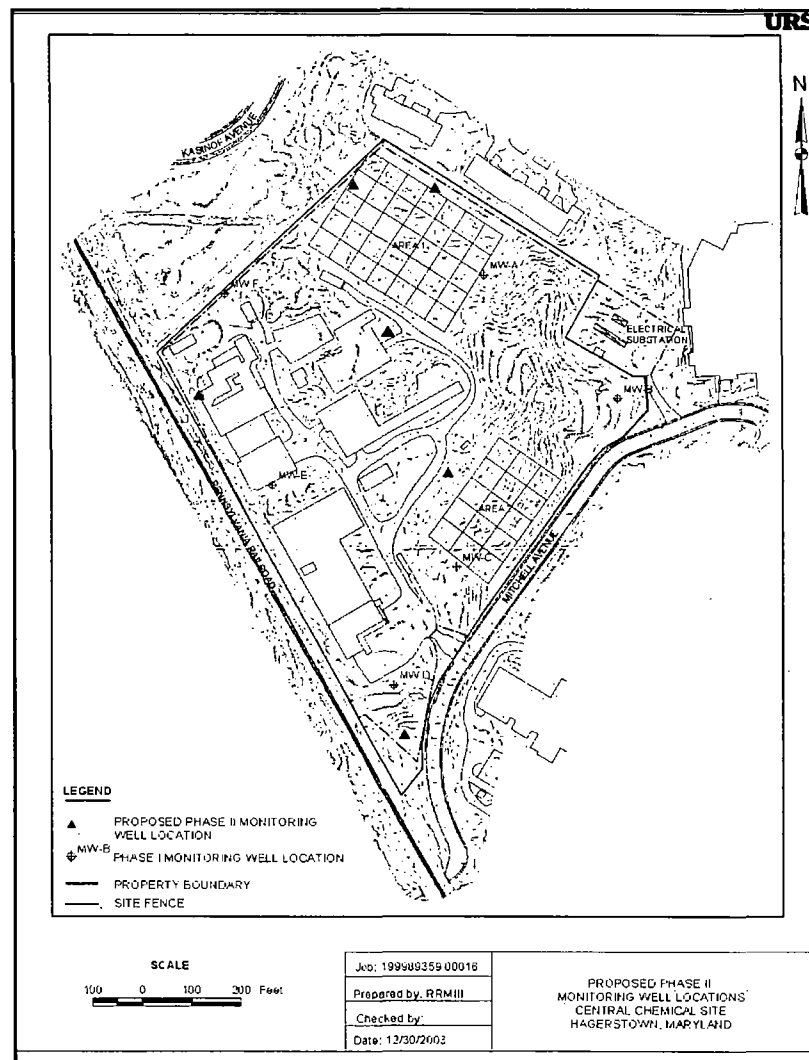
**Phase II Sampling Grid for Domain 1**



**Phase II Sampling Plan for Domain 2**



## Phase II Sampling Grid for Domain 3



## Key Points

- Phase I
  - Primary impacts appear to be limited to soils onsite.
  - Surface water and sediment impacts appear very limited.
  - Groundwater effects appear to be limited to the vicinity of the former lagoon but more data is needed.
- Phase II
  - Additional soil sampling
  - Additional wells
  - Fish tissue samples for eco risk

## Next Steps

- Phase I Report has been submitted and is currently being reviewed by EPA and MDE.
- Agencies may provide comments and PRPs will respond and/or revise the Report.
- After Phase I Report and Work Plan for Phase II are approved, work on Phase II will begin. Schedule for Phase II will be similar to Phase I (sampling in Spring, results by Summer, evaluation and Risk Assessment in Fall, and report by year-end).
- Following Phase II RI, Feasibility Study to evaluate potential remedial actions will occur in early 2005.
- Based on FS, EPA will develop Proposed Plan and Record of Decision.